

Sandoval,Loretta**Subject:** Application 10/565,585 (M03B120)

Application No.: 10/565,585

Examiner: Enda Wong

Applicants/Appellant(s): Emmanuel Uzoma
Okoroafor

Art Unit: 1795

Title: COATING

Confirmation No.: 2673

Filed: January 20, 2006

Atty. Docket No.: M03B120

Dear Sandra Sewell,

(571) 272-1047 - Phone

(571) 273-1047 - Fax

Thank you very much for your assistance today.

Following are the documents we filed on January 05, 2011. We also submitted 8 references, as listed on the Transmittal Form, however due to size I have not included them. Kindly let me know if you would like me to send them to you.

- | | |
|--|----------|
| 1. Electronic Acknowledgement Receipt | 3 pages |
| 2. Acknowledgement Receipt | 2 pages |
| 3. Transmittal Form | 2 pages |
| 4. Appeal Brief | 21 pages |
| 5. Petition for Extension of Time | 2 pages |
| 6. Monthly Statement of Deposit Account-Jan 2011 | 1 page |
| 7. Email - EFS Web Receipt | 1 page |
| TOTAL | 32 PAGES |

Please feel free to contact me if you have any questions or need additional information.

Thank you and kind regards.

*Best,**Loretta***Loretta Sandoval**

Intellectual Property Paralegal

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4/29/2011

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VIII. CLAIMS APPENDIX

1. (Previously Presented) A method of forming a coating on a plastics substrate comprising the steps of:

applying a metallic layer to the plastic substrate wherein the metallic layer is selected from the group of metals including at least magnesium, titanium, tantalum, zirconium, niobium, hafnium, tin, tungsten, molybdenum, vanadium, antimony, bismuth, and alloys of the aforementioned metals; and

subjecting the metallic layer to electrolytic plasma oxidation, wherein the metallic layer is anodically charged and immersed in an aqueous electrolytic solution for forming at least a sintered ceramic oxide layer on the metallic layer.

2. (Original) The method according to Claim 1 wherein the group of metals further includes aluminium.

3. (Original) The method according to Claim 1 wherein the metallic layer is deposited on the substrate.

4. (Original) The method according to Claim 3 wherein the metallic layer is sprayed on the substrate.

5. (Withdrawn) The method according to Claim 1 wherein the metallic layer is adhered to the substrate.

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6. (Original) The method according to Claim 1 wherein the metallic layer comprises a thickness less than 100um.
7. (Original) The method according to Claim 1 wherein the substrate is roughened prior to applying the metallic layer thereto.
8. (Original) The method according to Claim 1 wherein the metallic layer is formed on a second metallic layer previously applied to the substrate.
9. (Withdrawn) The method according to Claim 1 wherein the metallic layer is formed on a polymeric layer previously applied to the substrate.
10. (Original) The method according to Claim 1 wherein the substrate comprises an epoxy-carbon fibre composite or fibre reinforced plastics material.
11. (Original) The method according to Claim 1 further including the step of smoothing the metallic layer prior to the step of subjecting the metallic layer to electrolytic plasma oxidation.
12. (Original) The method according to Claim 1 wherein the electrolytic plasma oxidation is performed at a pH from 7 to 8.5.
13. (Previously Presented) The method according to Claim 1 wherein the coating

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comprising the metallic layer and the sintered ceramic oxide layer has a thickness less than 100um.

14. (Original) The method according to Claim 13 wherein the thickness is less than 50um.

15. (Withdrawn) The method according to Claim 1 further comprising the step of modifying a physical property of the coating after the step of subjecting the metallic layer to electrolytic plasma oxidation.

16. (Withdrawn) The method according to Claim 1 further comprising the step of at least partially removing an external layer from the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

17. (Withdrawn) The method according to Claim 1 further comprising the step of abrasively removing at least part of the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

18. (Withdrawn) The method according to Claim 1 further comprising the step of applying a material for reducing the porosity of the coating to the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

19. (Withdrawn) The method according to Claim 1 further comprising the step of

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applying a material for enhancing the corrosion resistance of the coating to the metallic layer after the step of subjecting the metallic layer to electrolytic plasma oxidation.

20. (Withdrawn) The method according to Claim 1 further comprising the step of applying a layer comprising at least one organic material selected from the group consisting of a fluorocarbon, polytetrafluoroethylene, Carbon, carbides of Ni, Cr, Mo and W, a paint and a resin after the step of subjecting the metallic layer subjected to electrolytic plasma oxidation.

21. (Withdrawn) The method of forming a coating on a metallic or plastics substrate comprising the steps of:

applying a first metallic layer to the substrate;

applying a second metallic layer on at least a portion of the first metallic layer;

and

subjecting the second metallic layer to electrolytic plasma oxidation to form the coating.

22. (Withdrawn) The method according to Claim 21 wherein the substrate comprises a component of a vacuum pump.

23. (Withdrawn) A vacuum pump component comprising:

a metallic layer on the component and wherein the metallic layer is subjected to electrolytic plasma oxidation.

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24. (Original) The method according to Claim 1 wherein the substrate is a component of a vacuum pump.

25. (Withdrawn) The method according to Claim 1 further comprising the step of treating an external surface of the coating to modify a chemical property of the coating.

26. (Original) The method according to Claim 1 further comprising the step of applying to the metallic layer subjected to electrolytic plasma oxidation a layer formed from at least one metal selected from the group consisting of Mo, Ni, Cr and W.

27. (Withdrawn) A method of forming a coating on a metallic or plastics substrate comprising the steps of:

- applying a layer comprising nickel to substrate;
- applying a layer comprising aluminum to the nickel layer; and
- subjecting the aluminum layer to electrolytic plasma oxidation.

28. (Withdrawn) A vacuum pump component having a surface comprising:

- a metallic layer on the surface wherein the metallic layer is selected from the group of metals consisting of aluminum, magnesium, titanium, tantalum, zirconium, neodymium, hafnium, tin, tungsten, molybdenum, vanadium, antimony, bismuth, and alloys of the aforementioned metals; and

- wherein the metallic layer is subjected to electrolytic plasma oxidation.

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29. (Withdrawn) A vacuum pump comprising:

a component; and

a metallic layer on the component wherein at least a portion of the metallic layer is oxidized by electrolytic plasma oxidation.

30. (Withdrawn) The vacuum pump of claim 29 wherein the component is selected from the group of vacuum pump components consisting of a composite tube, a regenerative section, a molecular section, a pipe, a housing, a rotor and a stator.

31. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises a metal.

32. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises a plastic.

33. (Withdrawn) The vacuum pump of claim 29 wherein the component comprises an epoxy-carbon fiber composite or fiber reinforced plastics material.

34. (Withdrawn) The vacuum pump of claim 29 wherein the metallic layer is selected from the group of metals consisting of aluminum, magnesium, titanium, tantalum, zirconium, neobytium, hafnium, tin, tungsten, molybdenum, vanadium, antimony,

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bismuth, and alloys of the aforementioned metals and wherein the metallic layer is subjected to electrolytic plasma oxidation.

35. (Withdrawn) The vacuum pump of claim 29 wherein the at least a portion of the metallic layer oxidized by electrolytic plasma oxidation comprises a ceramic.

36. (Withdrawn) The vacuum pump of claim 35 wherein the ceramic comprises a transitional layer.

37. (Withdrawn) The vacuum pump of claim 36 wherein the ceramic further comprises a functional layer comprising a sintered ceramic oxide having a hard crystalline.

38. (Withdrawn) The vacuum pump of claim 37 wherein the ceramic further comprises a surface layer having a lower hardness value and a higher porosity value than the hardness and porosity values of the functional layer.

39. (Withdrawn) A vacuum pump component having a ceramic coating comprising:

- a metallic layer having an outer surface;

- wherein the metallic layer comprises:

- a surface layer extending inwardly from the outer surface of the metallic layer;

- a functional layer extending inwardly from the outer surface of the metallic layer;

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a transitional layer extending inwardly from the functional layer; and
an unreacted metallic layer extending inwardly from the transitional layer.

40. (Withdrawn) The vacuum pump component of claim 39 wherein at least one of the surface layer, the functional layer and the transitional layer is formed by exposing at least a portion of the metallic layer to electrolytic plasma oxidation.

41. (Withdrawn) The vacuum pump of claim 39 wherein the transitional layer is an adhesive for the ceramic coating.

42. (Withdrawn) The vacuum pump of claim 39 wherein the functional layer comprises a sintered ceramic oxide having a hard crystallite.

43. (Withdrawn) The vacuum pump of claim 39 wherein the surface layer has a lower hardness value and a higher porosity value than the hardness and porosity value of the functional layer.

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IX. EVIDENCE APPENDIX

Following references are relied upon by the Examiner in rejecting the claims of the present application, and cited in this Appeal Brief. Copies of the references are separately attached to this Appeal Brief.

1. US Patent Application Publication No. 2004/0247904 to Chan is relied on by Examiner in the Final Office Action of April 14, 2010.
2. US Patent No. 5,811,194 to Kurze et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
3. US Patent No. 6,029,571 to Johner et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
4. JP Patent Application Publication No. 54-31479 is relied on by Examiner in the Final Office Action of April 14, 2010.
5. Wu, M. T., Leu, I.C., and Hon, M. H., 2002, Effect of polishing pretreatment on the fabrication of ordered nanopore arrays on aluminum foils by anodization, J. Vac. Sci. Technol., Vol. B 20(3), pp. 776-782, is relied on by Examiner in the Final Office Action of April 14, 2010.
6. International Patent Application Publication No. WO 02/25113 to Hasert et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
7. US Patent No. 6,655,937 to Hasert et al. is relied on by Examiner in the Final Office Action of April 14, 2010.
8. US Patent No. 4,647,347 to Schoener et al. is relied on by Examiner in the Final Office Action of April 14, 2010.

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X. RELATED PROCEEDINGS APPENDIX

None

PTO/SB/22 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional)																								
FY 2009		M03B120																								
<i>(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)</i>																										
Application Number 10/565,585		Filed January 20, 2006																								
For COATING																										
Art Unit 1795		Examiner Enda Wong																								
<p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%; text-align: center;"><u>Fee</u></th> <th style="width: 20%; text-align: center;"><u>Small Entity Fee</u></th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$130</td> <td style="text-align: center;">\$65</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$490</td> <td style="text-align: center;">\$245</td> <td style="text-align: center;">\$ <u>490</u></td> </tr> <tr> <td><input type="checkbox"/> Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1110</td> <td style="text-align: center;">\$555</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$1730</td> <td style="text-align: center;">\$865</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$2350</td> <td style="text-align: center;">\$1175</td> <td style="text-align: center;">\$ _____</td> </tr> </tbody> </table> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> A check in the amount of the fee is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>50-4244</u>.</p> <p>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>I am the <input type="checkbox"/> applicant/inventor.</p> <p><input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration Number <u>60,126</u></p> <p><input type="checkbox"/> attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____</p> <p><u>/Ting-Mao Chao, Reg. No. 60,126/</u> <u>January 05, 2011</u></p> <p style="text-align: center;">Signature Date</p> <p><u>Ting-Mao Chao</u> <u>408-496-1177 x2222</u></p> <p style="text-align: center;">Typed or printed name Telephone Number</p> <p>NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.</p> <p><input checked="" type="checkbox"/> Total of <u>1 (one)</u> forms are submitted.</p>				<u>Fee</u>	<u>Small Entity Fee</u>		<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$130	\$65	\$ _____	<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$490	\$245	\$ <u>490</u>	<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1110	\$555	\$ _____	<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$1730	\$865	\$ _____	<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____
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<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____																							

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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Sandoval, Loretta

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1	26	11	10970	PCT/US11/22461	M09B110W0	1701	1264.00	9812.00
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AN AMOUNT SUFFICIENT TO COVER ALL SERVICES REQUESTED MUST ALWAYS BE ON DEPOSIT					OPENING BALANCE	TOTAL CHARGES	TOTAL CREDITS	CLOSING BALANCE
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